Index of Claims

| Application | /Control No. |
|-------------|--------------|
|-------------|--------------|

10/689,099 Examiner

Date

Applicant(s)/Patent under Reexamination

KANAYAMA ET AL.

**Art Unit** 

2814

Steven H. Rao

Α

**Appeal** 

Rejected Allowed

(Through numeral) Cancelled Restricted

Claim

Non-Elected N Interference

0 Objected

|                            |                            |          | •              |          |                                     |  | J  |                |   |            |
|----------------------------|----------------------------|----------|----------------|----------|-------------------------------------|--|--|----------------|---|------------|
| Cla                        | im                         | 1.       |                |          |                                     |  |  |                |   |            |
|                            |                            | 1000     | 7              | Г        | Г                                   | Dat  | П  | Π              | Г   | Γ          |
| <u>a</u>                   | Original                   | 4        | 1              |          |                                     | -  |  |                |   |            |
| Final                      | Ē                          | 65       | 1              |          | l                                   |  |  |                |   |            |
| -                          | 0                          | 10       |                |          |                                     |  |  |                |   |            |
| $\vdash$                   | 1                          | 5        |                | -        | $\vdash$                            | ╁  | ├-   | ╁╾             | ╁   | $\vdash$   |
| $\vdash$                   | 1<br>2<br>3<br>4<br>5      | 1        | $\vdash$       | $\vdash$ | ╁                                   | -  | H  | ┝              | ╁   | +-         |
| <del>   -</del>            | ~                          | Н        | $\vdash$       | -        | ├-                                  | -  | ┢╾   | ╁              | -   | -          |
|                            | - 4                        | Н        | ┝              | $\vdash$ | ⊢                                   | $\vdash$   | ⊢  | ┢┈             | -   | -          |
| $\vdash$                   | -                          | ╁        | -              | -        | -                                   | -  | -  | -              | ├   | -          |
|                            | 6                          | $\vdash$ | $\vdash$       |          | ⊢                                   | <u> </u>   | -  |                | -   | ├          |
| Н                          |                            | $\vdash$ | -              | <u> </u> | H                                   | ├  | -  | -              | <u> </u>  | ļ          |
| H                          | 7                          | $\vdash$ | -              | ļ        | ├                                   | ├  | ऻ_   | ├-             | ├   | <u> </u>   |
| Ш                          | 8                          | Н        | -              | ļ        | <u> </u>                            | _  | L  | L              | <u> </u>  | <u> </u>   |
| $\vdash$                   | 9                          | $\perp$  | <u> </u>       |          | _                                   | <u> </u>   | <u> </u>   | <u> </u>       | <u> </u>  | lacksquare |
| ш                          | 10                         | Н        | <u> </u>       | _        | <u> </u>                            | <u> </u>   |  | _              | <u> </u>  |            |
|                            | 11                         | 1        | <u> </u>       | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _  | _  | <u></u>        |   |            |
| 12                         | 12<br>13                   | -        |                | L_       |                                     | <u> </u>   |  | L.             |   | Ш          |
| igsquare                   | 13                         | L.       | <u> </u>       |          | <u> </u>                            | $\vdash$   | L_   |                |   | Ш          |
| igsquare                   | 14                         | _        | <u> </u>       | <u> </u> | <u> </u>                            |  | _  | _              | _   | Ш          |
|                            | 15<br>16<br>17<br>18<br>19 | <u></u>  |                |          |                                     | L  | L  |                | $oxed{\Box}$  | $\Box$     |
|                            | 16                         |          |                |          |                                     |  |  |                |   |            |
|                            | 17                         |          |                |          |                                     |  |  |                |   |            |
|                            | 18                         |          |                |          |                                     |  |  | Г              | Г   |            |
|                            | 19                         |          |                |          |                                     |  |  |                | Π   |            |
|                            | 20<br>21                   |          |                |          |                                     | Г  |  | 1              |   |            |
|                            | 21                         |          |                |          |                                     |  | <u> </u>   |                |   | П          |
|                            | 22                         |          |                |          |                                     |  | _  | T              | 1   | Н          |
|                            | 23<br>24<br>25             |          |                | _        | _                                   |  |  |                | _   | Н          |
| Н                          | 24                         | _        |                |          | <b></b>                             | <del>                                     </del> | T  | T              | -   | H          |
|                            | .25                        | -        |                | _        | ┢                                   | ├  | <del>                                     </del> | $\vdash$       | $\vdash$  | $\vdash$   |
| $\vdash$                   | 26                         | -        |                | _        | -                                   | <del> </del>                                     | $\vdash$   | $\vdash$       | -   | Н          |
|                            | 27                         | -        |                |          | -                                   | ╁  | -  |                | ┢   | Н          |
|                            | 28                         | -        |                | -        |                                     | ┢┈   |  | -              | $\vdash$  | Н          |
| -                          | 28<br>29                   |          |                |          | $\vdash$                            | ├─   | _  |                | -   |            |
|                            | 30                         |          |                |          | ⊨                                   | -  | -  | -              | $\vdash$  | -          |
|                            | 30                         |          | -              |          |                                     | -  | -  |                | _   | $\vdash$   |
| $\vdash$                   | 31<br>32                   |          | $\vdash$       |          | -                                   | -  | -  | -              |   | $\vdash$   |
| $\vdash \vdash \vdash$     | 33                         | -        |                | -        | Ь—                                  |  | $\vdash$   | -              | <u> </u>  | $\vdash$   |
| $\vdash$                   | 33                         | -        |                |          | <u> </u>                            | <u> </u>   | <u> </u>   | <u> </u>       | <del>  -</del>  | $\vdash$   |
| <del>  </del>              | 34<br>35                   |          | $\vdash\vdash$ |          | _                                   | <u> </u>   | _  | <del> </del> — | <u> </u>  | Щ          |
| $\vdash \vdash \vdash$     |                            |          | Щ              |          | <u> </u>                            | <u> </u>   | <u> </u>   | <u> </u>       |   | Ш          |
| $\vdash \vdash \vdash$     | 36                         |          | Ш              |          |                                     | _  | _  |                |   | Ш          |
| $\vdash \vdash \downarrow$ | 37                         | _        | <u> </u>       |          | _                                   | _  |  | _              |   | Щ          |
|                            | 38                         | _        | Щ              |          | _                                   | <u> </u>   |  |                | $ldsymbol{ld}}}}}}}}}$ | Щ          |
|                            | 39                         |          |                |          |                                     |  |  |                | L_  |            |
| <u> </u>                   | 40                         |          | Ш              |          |                                     |  | _  | _              | $oxed{oxed}$  | Ш          |
| $\sqcup$                   | 41                         |          |                |          |                                     | $oxed{oxed}$                                     |  |                |   |            |
|                            | 42                         |          |                |          |                                     |  |  |                |   |            |
|                            | 43                         |          |                |          |                                     |  |  |                |   |            |
|                            | 44                         |          |                |          |                                     |  |  |                |   |            |
|                            | 45                         |          |                |          |                                     |  |  |                |   | П          |
|                            | 46                         |          |                |          |                                     |  |  |                |   | П          |
|                            | 47                         |          |                |          |                                     |  |  |                |   | $\dashv$   |
|                            | 48                         |          |                | _        |                                     |  |  | Т              |   | Н          |
|                            | 49                         | т        | $\neg$         |          | _                                   |  |  |                | _   | Н          |
|                            | 50                         | $\dashv$ | $\dashv$       |          | -                                   | Н  |  | -              | -   | $\vdash$   |
|                            |                            |          |                |          | 1                                   |  | , ,  |                | 1   | ı I        |

| Date     |          |          |               |              |          | Į        | U C I C  | 11111 | Date        |                |          |            |          |          |          |          |   |           |          |
|----------|----------|----------|---------------|--------------|----------|----------|----------|-------|-------------|----------------|----------|------------|----------|----------|----------|----------|---|-----------|----------|
|          |          |          |               |              |          |          |          |       | Final       | Original       |          |            |          |          |          |          |   |           |          |
|          |          |          |               |              |          |          |          |       |             | 51             |          |            |          |          |          |          |   |           |          |
|          |          |          |               |              |          |          |          |       |             | 52             |          |            |          |          |          |          |   |           | П        |
|          |          |          |               |              |          |          |          |       |             | 51<br>52<br>53 |          |            |          |          |          |          |   |           | П        |
|          |          |          |               |              |          |          |          |       |             | 54             |          |            |          | _        |          |          |   |           |          |
|          |          |          |               |              |          |          |          |       |             | 54<br>55       |          |            |          |          |          |          |   |           |          |
|          |          |          |               |              |          |          |          |       |             | 56             |          |            |          |          |          | _        | _ | $\vdash$  | $\vdash$ |
| _        |          |          | -             |              |          |          |          | 1     |             | 57             |          |            |          |          | _        | _        |   | $\vdash$  |          |
|          |          |          |               |              |          |          |          |       |             | 58             |          |            |          |          | П        |          |   |           |          |
|          |          |          |               |              |          | _        |          | 1     |             | 59             |          |            |          |          |          |          | _ |           |          |
|          |          |          |               |              |          | _        |          |       |             | 60             |          |            |          |          |          |          | _ |           |          |
|          |          |          |               |              |          |          |          |       |             | 60<br>61       |          |            |          |          | -        | _        |   |           |          |
|          |          |          |               | $\vdash$     | _        |          |          |       |             | 62             | _        |            |          |          |          |          |   | <u> </u>  |          |
|          |          |          |               |              | <u> </u> | _        | $\vdash$ |       |             | 62<br>63       |          | _          |          |          |          | ÷        | _ |           |          |
|          |          |          | $\overline{}$ | _            | _        |          | Т        |       |             | 64             |          |            |          |          | _        |          |   | -         | $\vdash$ |
|          |          |          |               | $\vdash$     |          | $\vdash$ | $\vdash$ |       |             | 65             | _        |            |          |          | _        | _        |   |           | $\vdash$ |
| _        |          |          |               |              | T        | $\vdash$ | $\vdash$ |       |             | 65<br>66       | _        |            |          | -        |          |          |   |           | $\vdash$ |
|          |          | _        |               |              |          | _        | _        |       |             | 67             |          |            |          |          |          |          |   | $\vdash$  | Н        |
|          |          |          |               |              | $\vdash$ | _        | $\vdash$ |       |             | 68             | $\vdash$ |            |          |          |          |          |   | H         | H        |
|          |          | _        | _             |              | H        | $\vdash$ |          |       |             | 69             | $\vdash$ |            |          | -        |          |          |   | -         | Н        |
|          |          |          | _             | _            |          | H        | -        |       |             | 69<br>70<br>71 | -        | -          |          | -        |          |          |   |           | $\vdash$ |
| _        |          |          | -             |              |          | $\vdash$ |          |       |             | 71             | Н        | $\neg$     | _        |          | -        |          |   | -         | $\vdash$ |
|          |          |          |               | _            |          |          | $\vdash$ |       |             | 72             | Н        | $\dashv$   |          |          |          | _        |   |           | $\dashv$ |
|          |          |          |               |              |          |          | $\vdash$ |       |             | 73             | $\vdash$ | -          | _        |          |          |          |   |           | $\dashv$ |
|          |          |          |               | -            | -        |          | _        |       |             | 73<br>74       | $\dashv$ | _          |          |          |          |          | _ | -         | $\dashv$ |
| _        | _        | _        |               | -            |          | -        |          |       |             | 75             | $\dashv$ |            |          |          | -        |          | - | -         | $\dashv$ |
| -        | _        |          | -             | $\vdash$     | $\vdash$ |          |          |       |             | 76             | $\dashv$ | $\dashv$   |          |          |          | _        | _ |           | $\vdash$ |
| -        | _        | _        |               | <del> </del> | $\vdash$ |          | -        |       |             | 76<br>77       | $\dashv$ |            | -        |          |          | _        |   |           | -        |
| -        | -        | _        |               |              | -        |          |          |       |             | 79             |          | -          | _        |          | _        |          |   |           | -        |
|          |          | $\dashv$ |               | _            |          | -        |          |       |             | 78<br>79       | -        | $\dashv$   | -        |          | $\vdash$ | _        |   |           | $\dashv$ |
| -        |          | $\vdash$ | _             | _            |          | -        | -        |       |             | 80             | -        | $\dashv$   | $\dashv$ |          | _        | -        |   | -         | -        |
| -        | -        | _        | -             |              |          | _        |          |       |             | 91             | -        | $\dashv$   | _        |          | -        |          | _ | -         | $\dashv$ |
| -        | $\dashv$ | _        |               | -            | -        |          |          |       |             | 81<br>82<br>83 | $\dashv$ | $\dashv$   | -        |          | -        | -        | - | Н         | -        |
| -        | $\dashv$ |          |               |              | $\vdash$ |          | -        |       |             | 02             | $\dashv$ | -          | -        | _        | _        | -        |   |           |          |
| -        | -        | -        | _             |              | _        | _        | -        |       |             | 03             | -        | -          |          | _        |          |          | _ |           |          |
| -        | _        | $\dashv$ | _             | _            | _        |          | -        |       |             | 84<br>85       |          |            | $\dashv$ | _        |          | -        |   |           |          |
| -        | -        | $\dashv$ | _             |              | -        |          | _        |       |             | 00             |          |            | $\dashv$ | -        |          |          |   |           |          |
| $\dashv$ | -        | -        | _             |              |          |          |          |       |             | 86             |          |            | -        | $\dashv$ | _        |          | - |           |          |
| $\dashv$ | -        | $\dashv$ | _             |              | Н        |          | $\vdash$ |       |             | 87<br>88       |          |            | -        | -        |          | $\dashv$ | _ |           | $\dashv$ |
| -        | -        | $\dashv$ |               | -            | -        | $\vdash$ | $\vdash$ |       |             | 90             | -        |            | _        | $\dashv$ | $\dashv$ |          | _ |           | $\dashv$ |
| -        | -        |          | _             |              |          |          |          |       |             | 89             | -        | $\dashv$   | $\dashv$ | _        |          |          |   | -         |          |
| -        | -        | $\dashv$ |               | _            | _        |          | $\dashv$ |       |             | 90             | -        |            |          | $\dashv$ |          |          | - | _         | 4        |
| -        | $\dashv$ |          |               |              |          |          | $\dashv$ |       |             | 91             |          |            |          | -        |          | _        | _ |           | $\dashv$ |
| $\dashv$ |          | $\dashv$ |               |              | _        | $\vdash$ | $\dashv$ |       |             | 92<br>93       | $\dashv$ |            |          |          | -        |          | _ | $\dashv$  | $\dashv$ |
| $\dashv$ |          | -        | _             |              |          |          |          |       | -           | 93             |          |            |          |          |          |          | _ |           | $\dashv$ |
| -        | $\dashv$ |          |               | -            | $\dashv$ |          | $\dashv$ | }     | $\dashv$    | 94             |          |            | _        | _        | _        | _        |   |           | _        |
| $\dashv$ | -        |          | _             |              | $\dashv$ |          | $\dashv$ |       |             | 95             |          |            |          | _        | _        |          |   | $\square$ | _        |
| $\dashv$ | -        |          | _             | •            |          | _        | $\dashv$ |       | <del></del> | 96             |          |            |          |          | _        |          |   | $\Box$    |          |
|          | $\dashv$ | _        | _             |              | Щ        |          |          | ļ     | $\dashv$    | 97             |          | <b>-</b> ↓ | _        | _        |          |          |   | $\Box$    | _        |
| _        | _        |          | _             |              | Ш        |          | _        | ļ     |             | 98             |          |            |          | _        | _        | _        |   |           | _        |
| 4        | _        |          | _             |              |          |          |          |       |             | 99             |          |            | -        |          |          |          | _ |           |          |
|          |          |          |               |              |          |          |          | Į     |             | 100            |          |            |          |          |          |          |   |           |          |
|          |          |          |               |              |          |          |          |       |             |                |          |            |          |          |          |          |   |           |          |

| CI    | aim               | Date     |            |          |          |          |                |          |          |          |
|-------|-------------------|----------|------------|----------|----------|----------|----------------|----------|----------|----------|
|       |                   | l        | Π          | Г        | П        | Π        |                | Γ        |          | П        |
| Final | Original          |          |            |          |          |          |                |          |          |          |
|       | 101               |          |            | Г        |          | Î        |                |          |          | П        |
|       | 102               |          |            |          |          | Γ        | Г              | Г        | Γ        |          |
|       | 103               | Г        |            |          |          | П        | Г              |          |          |          |
|       | 104               |          |            |          |          |          |                |          |          | П        |
|       | 104<br>105        |          |            | Π        |          |          |                |          |          | П        |
|       | 106               |          |            |          |          |          |                |          |          |          |
|       | 107               |          |            |          |          |          |                |          |          |          |
|       | 108               |          |            |          |          |          |                |          |          |          |
|       | 109               |          |            | _        | <u> </u> | L        |                |          |          |          |
|       | 110<br>111        |          |            | _        | <u> </u> |          |                | L        | <u> </u> | Ш        |
|       | 111               |          |            |          |          | _        | _              | _        |          |          |
|       | 112               |          |            | _        | _        | _        | _              | _        |          |          |
|       | 112<br>113<br>114 | _        |            | L        | _        |          | L              | _        |          | Ш        |
|       | 114               |          |            | L.       |          | <u> </u> | _              | ļ        | <u> </u> | Щ        |
|       | 115<br>116        |          |            | <u> </u> | _        | <u> </u> | L              | L_       |          |          |
| L     | 116               | _        | _          | <u> </u> |          | L.       |                | _        |          | Ц        |
|       | 117               | <u> </u> |            | <u> </u> | _        |          | <u> </u>       | <u> </u> |          | Щ        |
|       | 118<br>119        | _        | _          | <u> </u> | _        | _        | _              | <u> </u> |          | Щ        |
|       | 119               | <u> </u> | _          |          | _        | _        | _              | _        | <u>_</u> | Ш        |
|       | 120               | _        | <u> </u>   | <u> </u> | _        | _        | _              | _        | _        |          |
|       | 121<br>122        | <u> </u> | _          |          | <u> </u> | _        | _              | L        | <u> </u> | Ш        |
|       | 122               | -        | <b> </b> - |          |          | <u> </u> | <del> </del>   | <u> </u> | <u> </u> |          |
|       | 123<br>124<br>125 | _        | <u> </u>   | <u> </u> |          | L        | _              | ļ        | _        |          |
|       | 124               | _        | <u> </u>   | -        | _        | <u> </u> | _              |          | _        | $\vdash$ |
|       | 125               | -        |            | -        |          |          | <del>  -</del> | _        | ⊢        | $\dashv$ |
|       | 120               | -        | -          | -        | _        | _        | _              | _        | <u> </u> | Н        |
|       | 126<br>127<br>128 | _        | -          | ├-       | -        | -        | -              | -        | -        | H        |
|       | 120               | -        |            | -        | _        | -        |                | $\vdash$ |          | $\vdash$ |
|       | 129<br>130        | -        |            | ├─       |          |          | -              |          |          | $\dashv$ |
|       | 131               |          |            | ┢        |          | $\vdash$ | ├              | -        | _        | $\dashv$ |
|       | 132               | -        |            | $\vdash$ |          | -        |                |          | _        | $\dashv$ |
|       | 133               |          | -          | $\vdash$ | _        | _        | <del> -</del>  |          | _        | -        |
|       | 134               |          | _          |          |          | $\vdash$ |                |          |          | -        |
|       | 135               |          |            |          |          |          |                |          |          |          |
|       | 136               |          |            |          | _        |          | H              | -        | _        | $\vdash$ |
|       | 137<br>138<br>139 |          |            |          |          |          |                | _        | _        |          |
|       | 138               |          |            |          | _        |          |                |          |          |          |
|       | 139               |          |            |          |          |          |                |          |          |          |
|       | 140               |          |            |          |          |          |                |          |          |          |
|       | 141               |          |            |          |          |          |                |          |          |          |
|       | 142               |          |            |          |          |          |                |          |          |          |
|       | 143               |          |            |          |          |          |                |          |          |          |
|       | 144               |          |            | $\Box$   |          |          |                |          |          |          |
|       | 145               |          |            |          |          |          |                |          |          |          |
|       | 146               |          |            |          |          |          |                |          |          |          |
|       | 147               |          |            |          |          |          |                |          |          |          |
|       | 148               |          |            |          |          |          |                |          |          |          |
|       | 149               |          |            |          |          |          |                |          |          |          |
|       | 150               |          |            |          |          |          |                |          |          |          |